

ABSTRACT OF THE DISCLOSURE

Disclosed herein is a vibration control apparatus using a water tank, which is installed at the uppermost floor of a tall building, the water tank being formed at the inner wall surface thereof with horizontal protrusions. In order to improve a vibration attenuation rate in a horizontal direction within the water tank, the water tank is installed with vertical wire meshes therein, and the horizontal protrusions serve to improve a vibration attenuation rate in a vertical direction. According to the present invention, it is possible to improve serviceability of a tall building, and to reduce maintenance and installation costs thereof. The vibration control apparatus comprises the box shaped water tank having a pair of front and rear walls, a pair of left and right side walls, and a bottom wall, a plurality of the vertical wire meshes inserted vertically from upper edges of the front and rear walls and arranged in the middle of the water tank, a plurality of the horizontal protrusions formed at an overall inner wall surface of the front and rear walls and left and right side walls while being spaced apart from one another at equal distances, thereby serving to allow passing through a constant amount of fluid contained in the water tank with a damping force, and water tank covers installed at both sides of the top plane of the water tank and made of reinforced plastic.